

Notice of Allowability

Application No.

10/825,914

Examiner

Adolf DSouza

Applicant(s)

KUSUNOKI, SHIGEO

Art Unit

2611

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/16/2007.
2. ☒ The allowed claim(s) is/are 1 - 2, 4 - 7 which have been renumbered as set forth in the Office Action.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DAVID C. PAYNE

SUPERVISORY PATENT EXAMINER

1. Claims have been renumbered as shown below:

- Claims 1 – 2 are not renumbered
- Claim 4 is renumbered as claim 5
- Claims 5 - 6 have been renumbered as claims 3 - 4 respectively.
- Claim 7 is renumbered as claim 6

Response to Amendment

2. Applicant's amendment filed 8/16/2007 has been fully considered and as a result claims 1 – 2, 4 – 7 are now allowed.

Reasons for Allowance

3. The prior art of record, including Tsimbinos, Kim, D'Andrea, Kerth fail to teach or suggest:

amplitude impulse response accumulation adding means for outputting an accumulation adding value of multiplication values obtained by multiplying the signal voltage value after quadrature modulation by impulse response values corresponding to amplitude characteristic of the power amplifier in accordance with the voltage value data from the signal voltage value data outputting means and supplying to the subtractor means;

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wherein said amplitude impulse response accumulation adding means comprises:

N of first table blocks each having a first table storing M of said multiplication values corresponding to each of said voltage value data and a first adder for adding M of said multiplication values outputted from said first table;

a delay block formed by serially connecting N-1 of delays for delaying the voltage value data outputted from said voltage value data output means by a predetermined time; and

a second adder for outputting said accumulation adding values obtained by adding respective output values from respective first adder in said N of first table blocks to said subtractor means, and N of points comprising input point of said delay at a first stage, each of connecting points among delays, and output point of said delay at final stage in the delay block are connected to each of input point in said N of first table block, and at least a part of the voltage value data outputted from said voltage value data output means is defined as address data for accessing each of said first table in said first table block, wherein said M and N are natural numbers.

4. Claims 1 – 2, 4 – 7 are allowed.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adolf DSouza whose telephone number is 571-272-1043. The examiner can normally be reached on Monday through Friday from 8:00 AM to 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Payne can be reached on 571-272-3024. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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